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Use of **spinel** ferrites as sensitive material for bolometric infrared detector devices

P Tailhades, L Presmanes, C Bonningue, ... - US Patent App. 10/ ..., 2004 - Google Patents

... The article by A. Doctor, S. Baliga, M. Rost entitled "Sputtered films **thermistor** IR detector", Proc. ...5 854 587 describes the use of pervoskite type manganites as sensitive material for **bolometers**. ...with a sensitive element in the form of a thin layer of a **spinel ferrite** structure material ...[All 6 versions](#)[CITATION] Thick-film **thermistors** and RTDs

H Arima - Thick Film Sensors, 1994

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Infrared Focal Plane Arrays[J]; SEMICONDUCTOR TECHNOLOGY ... Beijing 100039, China);

Hydrothermal synthesis of Co-Mn-Ni-Mg-Fe-O nano-**spinel** NTC **thermistor** material[J] ...[Cached](#)Ceramic Sensors

..., S Subramanyam, A Amin, HL Tuller - Ceramic materials ..., 2004 - books.google.com

... vanadium oxide (VO_x) or amorphous silicon («-Si), form the thermal detector in **microbolometer**arrays (see ... can be adjusted by varying the composition in the Mn-Ni-Fe **spinel** system. ... Potentialsources of instability include: Mn Figure 9 NTC **thermistor** resistivity contours at 25 C ...[Related articles](#) - [BL Direct](#)Infrared optical properties of MnCoNiO **spinel** films sputter deposited in an oxygen ...

R Dannenberg, S Baliga, RJ Gambino, AH ... - Journal of Applied ..., 1999 - link.aip.org

... Though the traditional approach to make **thermistor** sensors and infrared **bolometers** has been

to ... historical composition used in the fabrication of the sintered ceramic flakes for infrared

bolometers. ... LO and TO components are similar to those reported for cobaltite **spinel**s of Zn ...

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A Vigliotti, T Yadav, C Kostecky, C ... - US Patent App. 10/ ..., 2001 - Google Patents
... Page 9. Patent Application Publication May 30, 2002 Sheet 8 of 16 US 2002/0063365
AI R2 Incident Hav VVVv i p VVW "1 = «•" r» **i i. •_ - - ^ ! i; .! , Output ID Ampliliti "r Rz
crc2 Figure Typical **Thermistor Bolometer** Detector Circuit Page 10. ...

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... 26, 2001 Sheet 8 of 16 US 2001/0009314 AI Incident Ray VWv t "V// RI 4= c, Th» , = C2 Th2 ; ,
^ \ \ . L. A '> \ C \ V XI v " VX' v V ' Output In Ampliliti "r R c, - c Figure Typical **Thermistor Bolometer**
Detector Circuit Page 10. ... 9 depicts a typical **thermistor bolometer** detector circuit. ...

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[Nanostructured devices from ceramic nanomaterials](#)

T Yadav, C Kostecky - US Patent App. 10/443,195, 2003 - Google Patents
... 9 depicts a typical **thermistor bolometer** detector circuit. ... $1/K) \cdot (dR/dT)$ [0064] where, R is the
resistance of the **thermistor** at temperature T. For **thermistors** a is ... prepare devices containing oxide
ceramic compositions based on one or more of the following elements: Ti, Mn, **Fe**, Ni, Zn ...

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[Prototype thermal detectors for a \$187\text{Re}\$ neutrino mass experiment](#)

A Alessandrello, C Brofferio, DV Camin, O ... - Nuclear Physics B (..., 1999 - Elsevier
... Wo_{2641} , Mg_{5557}) ilmenite violarite, mackinawite orthopyroxene (En_{6368}) micropegmatite
saussurite, **spinel**, olivine chlorite ... in the next implantation run we should improve the performances
of our Si **bolometers** and more systematic tests with Ge **thermistors** are planned ...

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[Recent Advances in Biological Temperature Measurements'](#)

HW TROLANDER, JH VEGHTE - Advances in Electronics and ..., 1971 - books.google.com
... of resistance on the order of 4%/C in the region 35-40 C. **Fe**, Co, and ... distribution of Ni and Mn
ions on a particular lattice site of the **spinel**, as suggested ... further devel- opment of the mechanisms
for establishing and maintaining electrical contact with the **thermistor** material will be ...

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